Quick Guide for CGS Setup (end user)

Setting up Diagnostic Cart for Guidance

Note: Not all configurations will require the current Versa Cart mentioned below. If your cart/table is different or one was not ordered/required, then skip to Section "**Guidance Set-Up**".

Cart box contents

8mm Phillips Machine Screw — Qty:4	4mm & 8mm Allen Wrench — Qty:2	20mm Furniture Bolt — Qty:6	1/2 - 13 Jam Nuts — Qty:4	Caster & Caster with Lock — Qty:4
Base — Qty:1	Upright Extension — Qty:1	Keyboard Arm — Qty:1	Zip Tie & Curly Tie — Qty:5	
Keyboard Platform — Qty:1	Push Handle — Qty:1	LCD Holder — Qty:1	CPU holder — Qty:1	
Clamp Bushing — Qty:2	3/8 - 1/6 x 1" Socket Head Bolt — Qty:2	CPU Holder Mount Bracket — Qty:1	Clamp — Qty:1	1" 7/8 Velcro Pads 1 Velcro Loops 1 Velcro Hooks — Qty:2

Note: A **Qty: 2** for LCD Holder may be required for some configurations that require a 2nd display/TV
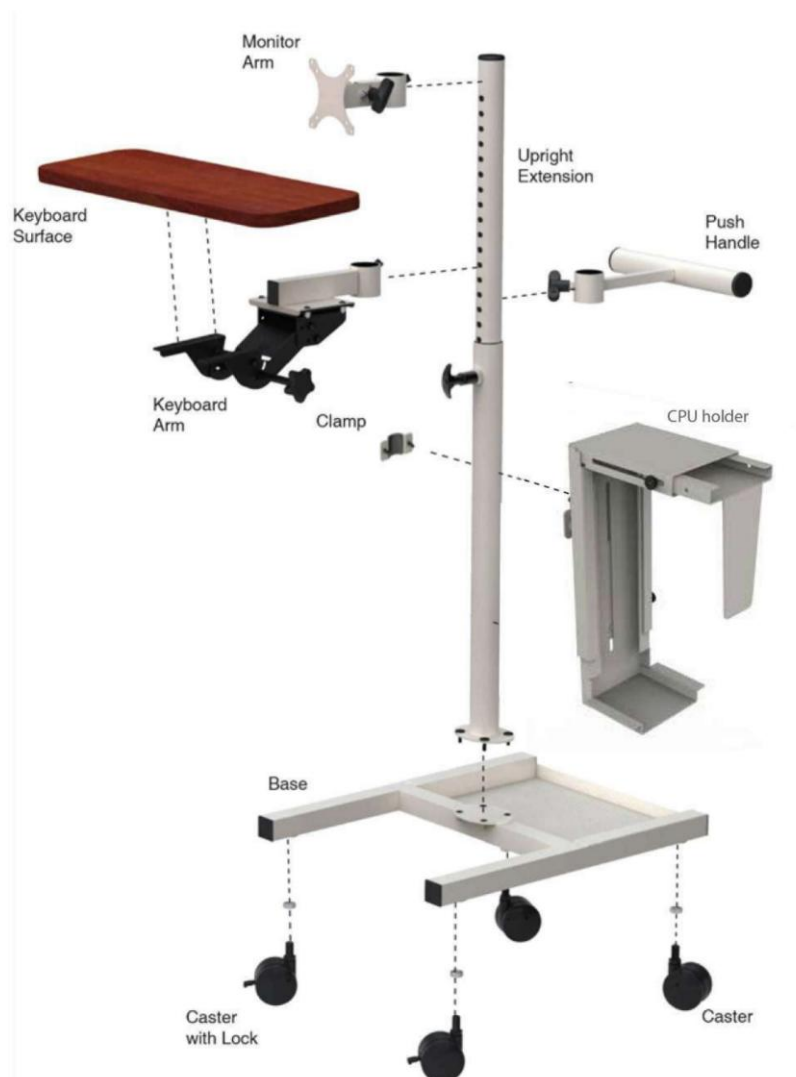
Additional tools required for Diagnostic Cart for Guidance

Additional Tools Required

Phillips Screw Driver (Optional)	3/4" Wrench

Quick Build Summary

The image below shows an exploded view. Go to Step-by-Step cart build section for assembly instructions

Monitor Arm

Upright Extension

Push Handle

Keyboard Surface

Keyboard Arm

Clamp

CPU holder

Base

Caster with Lock

Caster

Step-by-Step assembly instructions

Step 1 — Attach Casters to Base

1/2-13 Jam Nut
Qty:4

Use the Jam Nut to insure a level and stable base. Tighten with 3/4"Wrench.

1/2-13 Jam Nut

Caster

Caster with Lock

NOTE: The Casters with Locks are installed in the front of the Base.

Step 2 — Attach Upright Extension to Base

20mm Furniture Bolt
Qty:4

Attach Upright Extension using four 20mm Furniture Bolts. Tighten with 4mm Allen Wrench.

NOTE: Lock Casters to keep cart from moving during the rest of the assembly.

20mm Furniture Bolt

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Step ③ — Attach mount bracket to CPU holder

Use (2) 20mm Furniture Bolts.

20mm Furniture Bolt
Qty: 2

NOTE: If necessary, loosen the two stoppers and lower bottom piece to expose the mounting holes

mounting holes

loosen and lower

Step ④ — Attach CPU Holder At the desired Height.

Use (1) Clamps and (2) 3/8 1/6 x 1" Socket Head Bolts.

Clamp
Qty: 1

3/8 1/6 x 1" Socket Head Bolt
Qty: 2

Clamp Bushing
Qty: 2

Step 5 — Attach Velcro Pads to both your CPU and CPU Holder.

Once in place, adjust Holder and tighten Thumb Nuts to keep CPU secure.

Velcro Pads
Qty: 2

Velcro

CPU holder Adjustability

Height

Width

Note: The CPU in image above is strictly for reference only

Step ⑥ — Attach Push Handle

Slide Upright Extension to desired height and tighten Pull Pin. Once in place, slide Push Handle onto Upright Extension and tighten T-Knob
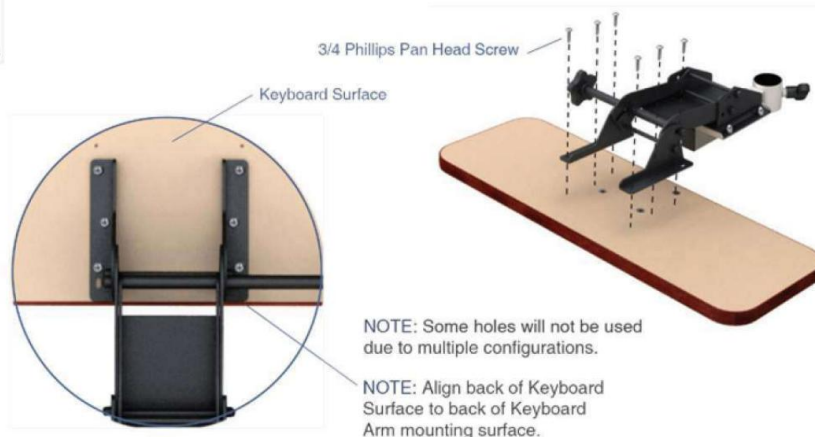
Tighten T-Knob

Tighten Pull Pin

Step ⑦ — Assemble Keyboard Surface.

Lay Keyboard Surface Upside Down and attach Keyboard Arm.

3/4 Phillips Pan Head Screw

Qty:6

3/4 Phillips Pan Head Screw

Keyboard Surface

NOTE: Some holes will not be used due to multiple configurations.

NOTE: Align back of Keyboard Surface to back of Keyboard Arm mounting surface.

Step 8

Attach Keyboard Arm

Slide Keyboard Arm onto Upright Extension and
Tighten T-Knob

Step 9

Assemble Keyboard Surface.

Slide Monitor Arm onto Upright Extension
and tighten T-Knob.

Step 10 — Attach Monitor.

8mm Phillips Machine Screw

Qty:4

Attach your monitor to the LCD holder using four 8mm Phillips Machine Screws. Make sure to tighter Pull Pin.

8mm Phillips Machine Screw

Tighten Pull Pin

NOTE: Steps 10 and 11 are OPTIONAL. The Utility / Printer Platform is an ADDITIONAL ACCESSORY and is acquired separately from the cart.

Step 11 — Utility / Printer Platform

1/4-20 Phillips Head Bolt

Qty:4

Attach the Utility / Printer Platform to Utility Bracket using (4) 1/4-20 Phillips Head Bolts.

1/4 - 20 Phillips Head Bolt

Step 12 — Utility / Printer Bracket

3/8 -16 x 1" Socket Head Bolt

Qty: 2

Attach the Utility / Printer Bracket to Cart at the desired height using (1) Clamp Bracket and (2) 3/8-16 x 1" Socket Head Bolts.

3/8 -16 x 1" Socket Head Bolt

Note: the Utility/Printer Platform can be used to place the Guidance on top instead of using the CPU Holder to place the Guidance vertically.

Cart shown with
Printer Platform

Cart shown with
Guidance on printer
platform with Control

Cart shown with Guidance
Held vertically by CPU
Holder with Control
Monitor, keyboard and TV

Cabling and Guidance device Setup - Up

Required Content

Guidance	Guidance Power cable – Ensure proper country cable type	Control Monitor (touchscreen)
Keyboard/trackpad/mouse	Looping SDI	USB-C TO USB-C
SDI Cable	USB thumb Drives bitlocker (x2)	

Optional content

Diagnostic Cart	2nd Display (TV) – 32"	HDMI cable
UPS	Extension power cord for UPS – ensure proper country cable type	USB Type A Male to A Female

SCOPE Accessories – Optional Content

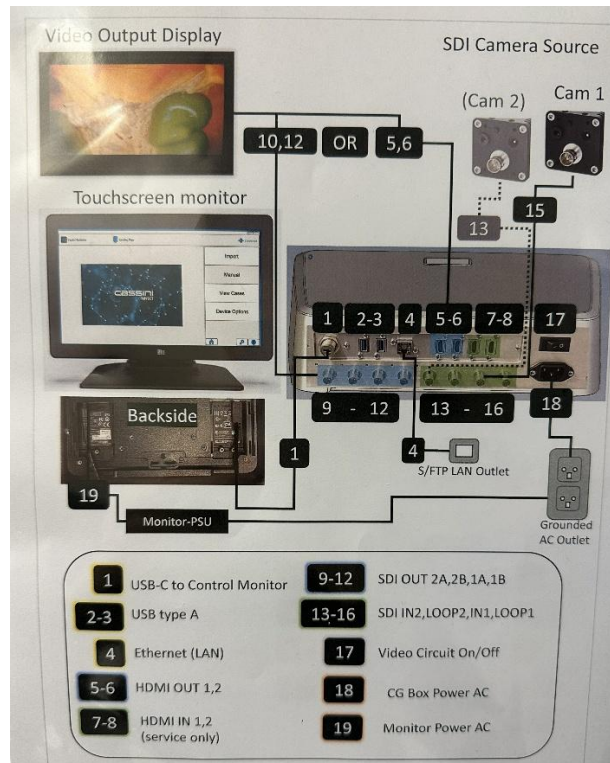| Omron Camera or equivalent	Camera Power supply	Camera DC power cable extender
Beam Splitter (original)	Leica Beam Splitter	F65 adapter
F50 Adapter	Cord Protector/Organizer tubbing	Zip ties

<u>Note</u>: Beam splitters, original and Leica version look identical
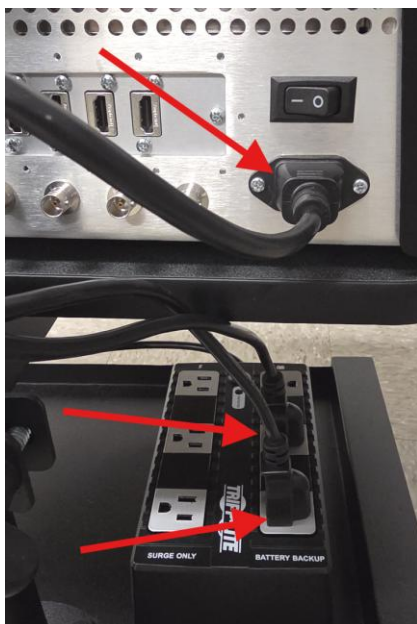

Cabling connection set up

<u>Note</u>: The below steps and images will show configuration set up with all optional content, including scope accessories.

If you are not installing any/some optional equipment, then skip those specific steps.
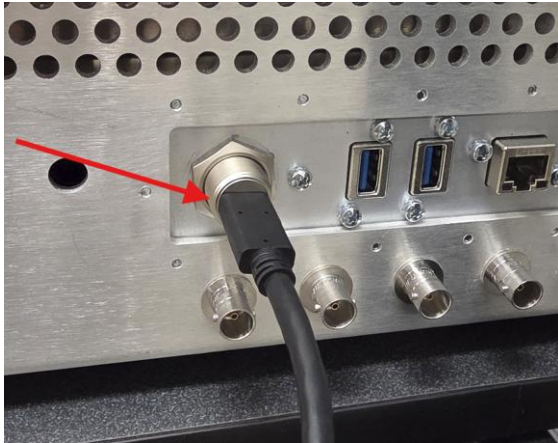
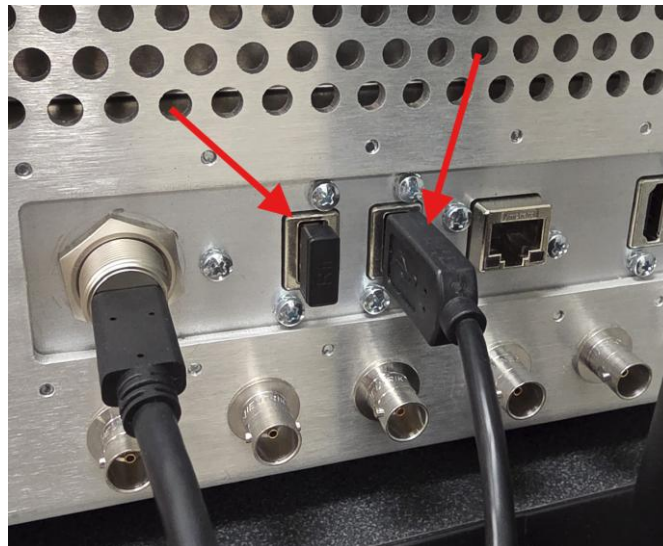Use the image below for Port Number Reference Guide.

1. Connect Guidance and Control Monitor to UPS. It is recommended to connect the Guidance and Control monitor to the UPS battery back-up power socket.
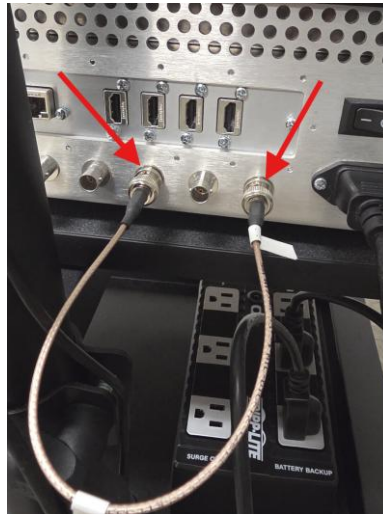

2. Connect USB-C to UCB-C cable from Guidance to USB-C input on the control monitor.
Port 1

3. Connect wireless/wire keyboard. Use one USB port for, leaving the second available port for thumb drive import or for the **USB Type A Male to A Female**. Using the USB Type A Male to A Female cable will make it easier to connect thumb drive or charge wireless keyboard/mouse (if needed) without having to reach behind the guidance device. **Ports 2 and 3**

4. Connect SDI Looping cable to **Ports 14 and 16**

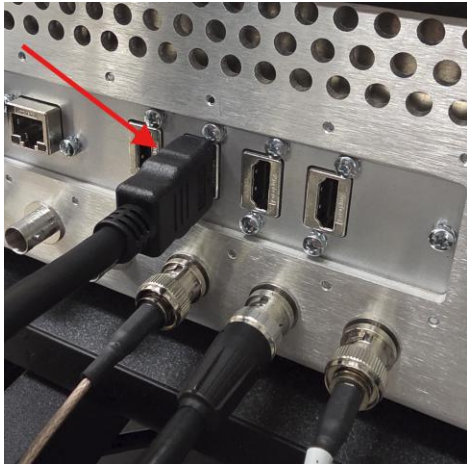5. Connect SDI cable to Guidance and Omron Camera. **Port 15**
   Note: For some Microscopes, the SDI will connect directly. Check the brand and model for first SDI input.

6. Connect the Omron camera Power supply to the UPS. If necessary, use the **Camera DC power cable extender** due to the cameras power supply cable being too short and connect the power cable to the Camera

7. Connect HDMI cable from Guidance to 2nd display/TV. **Ports 5 or 6**
    Connect the 2nd displays power cable to the UPS.

8. A LAN port is available for wired internet access. **Port 4**
    Note: WiFi is not available. However, you can use a WiFi USB drive adapter for Wifi internet.
9. Connect the UPS to a Power cord extension if needed, as the UPS integrated power cord may be too short and connect to wall outlet.
10. Turn the device On and confirm all is working properly.
    You should be able to have both visual on the Control monitor and 2nd Display. The Cassini Guidance software must be running.

11. Use a combination of zip ties and cable tubbing to organize all cables. Cable running alongside the diagnostic cart upright extension can be zip tied to hold it in place.
    Using cable tubbing, it is recommended to use the tubbing sleeve to combine the SDI and Cameras long extension cord into one.

For more information, **refer to the Cassini Guidance System IFU**.
For further assistance please contact support@cassini-technologies.com or visit support.cassini-technologies.com to raise an e-ticket.

Scope Accessories Set up

The images below will show how to connect scope accessories to a Microscope.

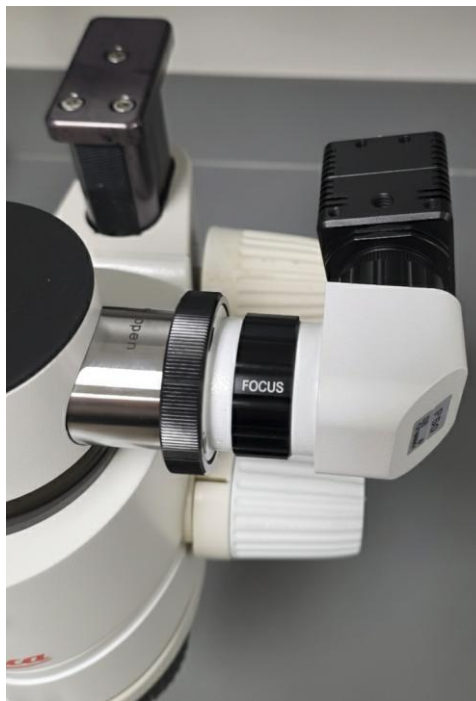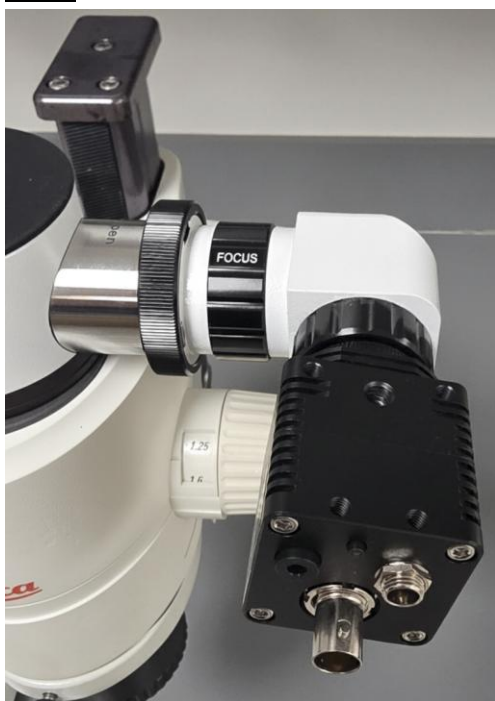1. Attach the Beamsplitter to the microscope

2. Attach the F50/F65 Camera adapter to the beam splitter. Ensure proper fitment to rotate the ring to secure on tightly.

3. Attach the Camera to the F50/F65 Camera adapter.

Note: the Camera adapters can be attached at different angles.

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